

Marine Gas Oil



Diesel Fuel

Description

Marine Gas Oil is a high quality light distillate fuel for use in high speed marine diesel engines (i.e. those operating at greater than 800 rpm), in services involving frequent and relatively wide variations in loads and speeds.

Performance Features

Marine Gas Oil is formulated to deliver adequate lubricity, to help protect fuel pumps and injectors from excessive wear. The cloud point is controlled on a regional and seasonal basis for the purposes of delivering operability across Australia.

Marine Gas Oil is an Ultra Low Sulphur Diesel fuel. The sulphur content is controlled to less than 10 mg/kg

Marine Gas Oil specification meets and exceeds the US ASTM D975 specification and is equivalent to the European EN590 diesel specification. It meets or exceeds the requirements set out in ISO 8217:2017 for distillate fuels: DMA specification

Applications

Marine Gas Oil is an Ultra Low Sulphur Diesel fuel designed for modern high-speed compression ignition engines. The diesel meets all the requirements of the Australian Fuel Quality Standards Act 2000 and has a maximum sulphur content of 10 ppm. It meets or exceeds the requirements set out in ISO 8217:2017 for distillate fuels: DMA specification

Marine Gas Oil cold properties are controlled by the seasonal cloud point requirements of the fuel for each region.

Health, Safety and Environment

Guidance on health and safety is available on the appropriate Safety Data Sheet which can be obtained from the Viva Energy Technical Help Desk or from www.vivaenergy.com.au

Storage

Drums of fuel should be stored in an upright position under cover protected from rain and direct sunlight, or with drum top covers to prevent ingress of water. Ensure buildings are well ventilated.

Product in unopened drums should be acceptable for use in a 24 month period. Product stored for longer than 24 months or in containers that have been opened should be checked to verify freedom from water, contamination or degradation.

Specifications / Approvals / Recommendations

Viva Energy Marine Gas Oil is manufactured to meet the specifications of:

Australian Fuel Quality Standards Act 2000
Fuel Standard (Diesel) Determination 2019
AS 3570 -1998 for Cold Flow Properties
ISO 8217: 2017 (E) Class DMA

Marine Gas Oil



Diesel Fuel

Typical Characteristics

Properties	Units	Methods	Marine Gas Oil Typical
Density @ 15°C	kg/m ³	ASTM D1298 / D4052	840 (820-850 max)
Viscosity @ 40°C	mm ² /s	ASTM D445	2.0-4.5
Flash Point	°C	ASTM D93	70 (61.5 min)
Sulphur	mg/kg	ASTM D2622/D5453	10 max
Cetane Index	-	ASTM D4737	49 (46 min)
Distillation - 95%	°C	ASTM D86	360 max
Water	mg/kg	ASTM D6304	70 (200 max)
Ash	% mass	ASTM D482	0.02 (0.1 max)
Sediment	% mass	ASTM D473	0.002 (0.01 max)
Filterability Test	-	IP 387	1.01 (2.0 max)
Pour Point	°C	ASTM D97	0 (summer) -6 (winter)
Strong Acid Number	mg KOH/g	ASTM D664/D974	Nil
Total Acid Number	mg KOH/g	ASTM D664/D974	<0.1 (2.5 max)
Copper Corrosion	-	ASTM D130	1a
Lubricity (HFRR test)	µm	IP 450	400 (460 max)
Conductivity	pS/m	ASTM D2624	100 (50 min)
FAME Content	%v/v	EN14078 or declaration	0

Technical Help Desk

Phone	1300 134 205
Email	technicalhelpdesk@vivaenergy.com.au